

INTELLEC SYSTEMS

INTELLEC® 8 / MOD 80

MICROCOMPUTER DEVELOPMENT SYSTEM

- Complete Hardware/Software Development System for the design and implementation of 8080 CPU based microcomputer systems.
- Front panel designer's console provides complete system control and monitoring functions.
- 8K bytes of random access memory (RAM) expandable to 16K bytes.
- 2K bytes of erasable and field programmable read only memory (PROM) expandable to 16K bytes.
- Self-contained PROM programming facility with zero insertion force PROM socket.
- Four 8-bit input and four 8-bit output ports.
- Integral asynchronous serial data communications capability at 110, 1200, or 2400 baud.
- Discrete teletype interface (20mA current loop).
- Standard system software includes a PROM resident system monitor, RAM resident macro-assembler and RAM resident text editor.
- Expansion capability provided for up to 16 standard or custom designed microcomputer modules.

The Intellec 8/MOD 80 (imm 8-84A) is a complete, self-contained microcomputer development system designed specifically to support the development and implementation of 8080 CPU based microcomputer systems. Its modular design facilitates the development of both large and small MCS-80 systems.

The basic Intellec 8/MOD 8 consists of seven standard microcomputer modules (CPU, RAM, PROM, I/O, PROM Programmer, Front Panel Control) and power supplies enclosed in a finished table top cabinet. The heart of the system is the imm 8-83 central processor module built around Intel's 8080 high performance n-channel 8-bit CPU on a single chip.

The Intellec Development System directly supports up to 16K of memory, four to sixteen input ports, four to twenty-eight output ports, and provides expansion capability for custom designed microcomputer modules within the system chassis.

External expansion enclosures may be designed to support up to 64K of memory, 256 input ports and 256 output ports.

The front panel designer's console provides an easy means of monitoring and controlling system operation, manually moving data to and from memory and input/output devices, setting hardware breakpoints, and executing or debugging programs.

The Intellec 8/MOD 80 has 10K bytes of memory in its basic configuration which can be expanded to 16K bytes within the system chassis. Of the basic 10K bytes of memory, 8K bytes are random access read/write memory located on two imm 6-28 RAM memory modules. This memory can

be used for both data and program storage. The remaining 2K bytes of memory are located on the imm 6-26 PROM memory module and contain the Intellec 8/MOD 80 system monitor in eight Intel 1702A erasable and field programmable read only memory chips. Eight additional sockets (2K bytes) are available on the imm 6-26 for expansion.

The PROM and RAM memory modules may be used in any combination to make up the 16K of directly addressable memory housed in the system chassis. Facilities are built into these modules so that combinations of RAM, ROM or PROM may be mixed in 256 byte increments.

The self-contained PROM programming module allows Intel® 1602A or 1702A PROMs to be programmed and verified directly from RAM or PROM memory.

